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TI Preparation of cellulase synergistic protector solution and its use in  
treating cellulose fiber  
IN Zhang, Mei; Zhang, Xiaoling; Liu, Ruiqiong; Tu, Zaorui  
PA Beijing Inst. of Textile Science, Peop. Rep. China  
SO Faming Zuanli Shengqing Gongkai Shuomingshu, 10 pp.  
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CC 40-7 (Textiles and Fibers)

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PI CN 1199116	A	19981118	CN 1997-111773	19970514
PRAI CN 1997-111773		19970514		

CLASS

PATENT NO.	CLASS	PATENT FAMILY	CLASSIFICATION CODES
CN 1199116	ICM	D06M016-00	

AB The protector is composed of 0.5-5.0 M alc. soln. 1-35, 0.2-1.5 M nonionic surfactant soln. 0.1-10.0, 0.05-1.0 M polysaccharide soln. 0.4-7.0, 0.5-1.0 M org. acid 0.05-2, and water to 100%. The protector may contain 0.1-0.9 M inorg. salt 0.5-10%. The alc. is selected from ethanol, ethylene glycol, glycerin, pentaerythritol, polyethylene glycol, and sorbitol; the surfactant from Tween-20, polyoxyethylene alkyl ether, polyoxyethylene aryl ether, polyoxyethylene alkyl ester, polyoxyethylene aryl ester, polyoxyethylene alkylphenol ether, and polyethylene glycol sorbitol laurate; the polysaccharide from methylcellulose, ethylcellulose, hydroxymethylcellulose, lactose, and sucrose; the org. acid from formic acid, acetic acid, propanoic acid, and oxalic acid; and the inorg. salt from NaCl, NaOAc, Na formate, Na<sub>3</sub>PO<sub>4</sub>, NaH<sub>2</sub>PO<sub>4</sub>, Na<sub>2</sub>HPO<sub>4</sub>, Ca formate, Ca(OAc)<sub>2</sub>, CaCl<sub>2</sub>, MgCl<sub>2</sub>, and Mg(OAc)<sub>2</sub>. The cellulose type fiber is treated by soaking the fiber in the protector soln. at 45-55.degree. and pH 4.5-5.5 for 30-90 min. The ratio of the protector-cellulose fiber is 0.2-5:100.

ST cellulase protector prepn cellulose fiber treatmen